


| FORM PTO-1449<br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE  |   | <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;">             OIPE 3618<br/>             NOV 24 2003<br/>             PATENT &amp; TRADEMARK OFFICE           </div> |                    | DOCKET NO: 006726 USA/ETCH/CONE/JB |               | APPLICATION NO.:<br>10/646,943 |    |
|--|---|---|--------------------|------------------------------------|---------------|--------------------------------|----|
| INFORMATION DISCLOSURE STATEMENT<br>IN AN APPLICATION  |   |   |                    | APPLICANT: Barnes et al.           |               | FILING DATE: 8/21/2003         |    |
| GROUP ART UNIT:<br>Unknown   |   |   |                    |                                    |               |                                |    |
| <b>U.S. PATENT DOCUMENTS</b>   |   |   |                    |                                    |               |                                |    |
| EXAMINER<br>INITIAL  | DOCUMENT NUMBER   | DATE  | NAME               | CLASS                              | SUB-<br>CLASS | FILING DATE<br>IF APPROPRIATE  |    |
| SN   | 4 6 1 1 9 1 9   | 09/16/1986  | Brooks, Jr. et al. |                                    |               | /                              |    |
|  | 4 8 4 2 6 8 3   | 06/27/1989  | Cheng et al.       |                                    |               |                                |    |
|  | 4 8 6 7 8 4 1   | 09/19/1989  | Loewenstein et al. |                                    |               |                                |    |
|  | 4 9 2 4 8 0 7   | 05/15/1990  | Nakayama et al.    |                                    |               |                                |    |
|  | 4 9 3 1 1 3 5   | 06/05/1990  | Horiuchi et al.    |                                    |               |                                |    |
|  | 4 9 3 5 6 6 1   | 06/19/1990  | Heinecke et al.    |                                    |               |                                |    |
|  | 4 9 5 3 9 8 2   | 09/04/1990  | Ebbing et al.      |                                    |               |                                |    |
|  | 4 9 6 0 4 8 8   | 10/02/1990  | Law et al.         |                                    |               |                                |    |
|  | 4 9 8 0 2 0 4   | 12/25/1990  | Fuji et al.        |                                    |               |                                |    |
| SN   | 5 0 7 0 8 1 4   | 12/10/1991  | Whiffin et al.     |                                    |               |                                |    |
| <b>FOREIGN PATENT DOCUMENTS</b>  |   |   |                    |                                    |               |                                |    |
|  | DOCUMENT NUMBER   | DATE  | COUNTRY            | CLASS                              | SUB-<br>CLASS | TRANSLATION                    |    |
|  |   |   |                    |                                    |               | YES                            | NO |
| SN   | 3 2 8 1 7 8 0   | 12/12/1991  | Japan              |                                    |               | Abstract                       |    |
|  | 6 1 3 2 2 2 3   | 05/13/1994  | Japan              |                                    |               | Abstract                       |    |
|  | 5 0 4 7 7 0 7   | 02/26/1993  | Japan              |                                    |               | Abstract                       |    |
|  | 6 1 2 4 1 9 30  | 10/28/1986  | Japan              |                                    |               | Abstract                       |    |
|  | 3 2 8 1 7 8 0   | 12/12/1991  | Japan              |                                    |               | Abstract                       |    |
|  | 1 2 4 8 5 2 0   | 10/04/1989  | Japan              |                                    |               | Abstract                       |    |
|  | 1 8 9 9 2 8   | 09/27/1985  | Japan              |                                    |               | Abstract                       |    |
|  | 6 1 2 4 9 0 9   | 05/06/1994  | Japan              |                                    |               | Abstract                       |    |
|  | 0 8 1 0 6 3 0   | 12/03/1997  | EP                 |                                    |               | X                              |    |
|  | 0 7 2 1 2 1   | 04/02/1987  | Japan              |                                    |               | X                              |    |
| SN   | 9 6 1 9 8 2 5   | 06/27/1996  | PCT                |                                    |               | x                              |    |
| <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)</b>  |   |   |                    |                                    |               |                                |    |
| SN   | Zhang et al., "Automated Process Control of Within-Wafer and Wafer-to-Wafer Uniformity in Oxide CMP", CMP-MIC, March 2002 |   |                    |                                    |               |                                |    |
| SN   | NANOMETRICS Applications Note, "Optical Measurement of Critical Dimensions", August 2001                                  |   |                    |                                    |               |                                |    |
| EXAMINER <i>Stangley</i>   |   |   |                    | DATE CONSIDERED 07/19/04           |               |                                |    |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |   |   |                    |                                    |               |                                |    |

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| FORM PTO-1449<br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE  |                 | NOV 2 6 2003<br>PATENT & TRADEMARK OFFICE |   | DOCKET NO: 006726 USA/ETCH/CONE/JB |   | APPLICATION NO.:<br>10/646,943 |   |            |                   |  |               |                               |    |
| INFORMATION DISCLOSURE STATEMENT<br>IN AN APPLICATION  |                 |   |   | APPLICANT: Barnes et al.           |   | FILING DATE: 8/21/2003         |   |            |                   |  |               |                               |    |
|  |                 |   |   |                                    |   | GROUP ART UNIT:<br>Unknown     |   |            |                   |  |               |                               |    |
| <b>U.S. PATENT DOCUMENTS</b>   |                 |   |   |                                    |   |                                |   |            |                   |  |               |                               |    |
| EXAMINER<br>INITIAL  | DOCUMENT NUMBER |   |   |                                    |   |                                |   | DATE       | NAME              | CLASS  | SUB-<br>CLASS | FILING DATE<br>IF APPROPRIATE |    |
| SN<br>↑<br>SN  | 5               | 0   | 8 | 4                                  | 1 | 2                              | 6 | 01/28/1992 | McKee             |  |               |                               |    |
|  | 5               | 2   | 4 | 4                                  | 5 | 0                              | 1 | 09/14/1993 | Nakayama et al.   |  |               |                               |    |
|  | 5               | 2   | 5 | 2                                  | 1 | 7                              | 8 | 10/12/1993 | Moslehi           |  |               |                               |    |
|  | 5               | 2   | 6 | 9                                  | 8 | 4                              | 7 | 12/14/1993 | Anderson et al.   |  |               |                               |    |
|  | 5               | 3   | 7 | 2                                  | 6 | 7                              | 3 | 12/13/1994 | Stager et al.     |  |               |                               |    |
|  | 5               | 3   | 8 | 9                                  | 1 | 9                              | 7 | 02/14/1995 | Ishimaru          |  |               |                               |    |
|  | 5               | 4   | 0 | 5                                  | 4 | 8                              | 8 | 04/11/1995 | Dimitrelis et al. |  |               |                               |    |
|  | 5               | 4   | 2 | 7                                  | 8 | 7                              | 8 | 06/27/1995 | Corliss           |  |               |                               |    |
|  | 5               | 4   | 5 | 3                                  | 1 | 2                              | 4 | 09/26/1995 | Moslehi et al.    |  |               |                               |    |
|  | 5               | 5   | 2 | 2                                  | 9 | 3                              | 4 | 06/04/1996 | Suzuki et al.     |  |               |                               |    |
| <b>FOREIGN PATENT DOCUMENTS</b>  |                 |   |   |                                    |   |                                |   |            |                   |  |               |                               |    |
|  | DOCUMENT NUMBER |   |   |                                    |   |                                |   | DATE       | COUNTRY           | CLASS  | SUB-<br>CLASS | TRANSLATION                   |    |
| SN<br>↑<br>SN  | 0               | 7   | 0 | 2                                  | 3 | 9                              | 2 | 03/20/1996 | EP                |  |               | YES                           | NO |
|  | 9               | 9   | 5 | 7                                  | 7 | 4                              | 7 | 11/11/1999 | PCT               |  |               | X                             |    |
|  | 0               | 4   | 1 | 0                                  | 4 | 4                              | 2 | 07/26/1990 | EP                |  |               | X                             |    |
|  | 9               | 8   | 0 | 0                                  | 5 | 7                              | 6 | 01/08/1998 | PCT               |  |               | X                             |    |
| <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)</b>  |                 |   |   |                                    |   |                                |   |            |                   |  |               |                               |    |
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| EXAMINER <span style="font-family: cursive;">Sandy m</span>  |                 |   |   |                                    |   |                                |   |            |                   | DATE CONSIDERED <span style="font-family: cursive;">7/19/04</span> |               |                               |    |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |   |   |                                    |   |                                |   |            |                   |  |               |                               |    |

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|  |  | DOCKET NO: 006726 USA/ETCH/CONE/JB                    |  | APPLICATION NO.: 10/646,943 |  |
| FORM PTO-1449<br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE      |  | INFORMATION DISCLOSURE STATEMENT<br>IN AN APPLICATION |  |                             |  |
|  |  | APPLICANT: Barnes et al.                              |  |                             |  |
|  |  | FILING DATE: 8/21/2003                                |  | GROUP ART UNIT:<br>Unknown  |  |

| U.S. PATENT DOCUMENTS |                 |   |   |   |   |   |   |            |                    |      |       |           |                            |
|-----------------------|-----------------|---|---|---|---|---|---|------------|--------------------|------|-------|-----------|----------------------------|
| EXAMINER INITIAL      | DOCUMENT NUMBER |   |   |   |   |   |   |            | DATE               | NAME | CLASS | SUB-CLASS | FILING DATE IF APPROPRIATE |
| EN<br>↓<br>GN         | 5               | 5 | 3 | 2 | 1 | 9 | 0 | 07/02/1996 | Goodyear et al.    |      |       |           |                            |
|                       | 5               | 5 | 5 | 6 | 5 | 2 | 1 | 09/17/1996 | Ghanbari           |      |       |           |                            |
|                       | 5               | 5 | 8 | 9 | 0 | 0 | 2 | 12/31/1996 | Su                 |      |       |           |                            |
|                       | 5               | 5 | 9 | 2 | 3 | 5 | 8 | 01/07/1997 | Shamouilian et al. |      |       |           |                            |
|                       | 5               | 6 | 1 | 4 | 0 | 2 | 6 | 03/25/1997 | Williams           |      |       |           |                            |
|                       | 5               | 6 | 2 | 4 | 4 | 9 | 8 | 04/29/1997 | Lee et al.         |      |       |           |                            |
|                       | 5               | 6 | 5 | 3 | 8 | 0 | 8 | 08/05/1997 | MacLeish et al.    |      |       |           |                            |
|                       | 5               | 6 | 8 | 3 | 5 | 1 | 7 | 11/04/1997 | Shan               |      |       |           |                            |
|                       | 5               | 6 | 8 | 3 | 5 | 4 | 8 | 11/04/1997 | Hartig et al.      |      |       |           |                            |
|                       | 5               | 7 | 2 | 0 | 8 | 1 | 8 | 02/24/1998 | Donde et al.       |      |       |           |                            |

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|                          | DOCUMENT NUMBER |  |  |  |  |  |  |  | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |    |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) |  |
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| EXAMINER <i>Sanyal</i> | DATE CONSIDERED <i>7/19/04</i> |
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| FORM PTO-1449<br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |  | DOCKET NO: 006726 USA/ETCH/CONE/JB                     |  | APPLICATION NO.:<br>10/646,943 |  |
| INFORMATION DISCLOSURE STATEMENT<br>IN AN APPLICATION                       |  | APPLICANT: Barnes et al.<br><br>FILING DATE: 8/21/2003 |  | GROUP ART UNIT:<br>Unknown     |  |

| U.S. PATENT DOCUMENTS |                 |   |   |   |   |   |   |            |                   |       |               |                               |
|-----------------------|-----------------|---|---|---|---|---|---|------------|-------------------|-------|---------------|-------------------------------|
| EXAMINER<br>INITIAL   | DOCUMENT NUMBER |   |   |   |   |   |   | DATE       | NAME              | CLASS | SUB-<br>CLASS | FILING DATE<br>IF APPROPRIATE |
| SN                    | 5               | 7 | 6 | 7 | 6 | 2 | 8 | 06/16/1998 | Keller et al.     |       |               |                               |
|                       | 5               | 7 | 7 | 2 | 7 | 7 | 1 | 06/30/1998 | Li et al.         |       |               |                               |
|                       | 5               | 8 | 1 | 4 | 1 | 5 | 3 | 09/29/1998 | Ishikawa          |       |               |                               |
|                       | 5               | 8 | 1 | 9 | 4 | 3 | 4 | 10/13/1998 | Herchen et al.    |       |               |                               |
|                       | 5               | 8 | 8 | 2 | 4 | 1 | 7 | 03/16/1999 | Van de Ven et al. |       |               |                               |
|                       | 5               | 9 | 1 | 0 | 0 | 1 | 1 | 06/08/1999 | Cruse             |       |               |                               |
|                       | 5               | 9 | 1 | 3 | 1 | 0 | 2 | 06/15/1999 | Yang              |       |               |                               |
|                       | 5               | 9 | 6 | 3 | 3 | 2 | 9 | 10/05/1999 | Conrad et al.     |       |               |                               |
|                       | 5               | 9 | 7 | 6 | 3 | 0 | 8 | 11/02/1999 | Fairbairn et al.  |       |               |                               |
| SN                    | 5               | 9 | 8 | 0 | 6 | 8 | 6 | 11/09/1999 | Goto              |       |               |                               |

| FOREIGN PATENT DOCUMENTS |                 |  |  |  |  |  |  |      |         |       |               |             |    |
|--------------------------|-----------------|--|--|--|--|--|--|------|---------|-------|---------------|-------------|----|
|                          | DOCUMENT NUMBER |  |  |  |  |  |  | DATE | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |    |
|                          |                 |  |  |  |  |  |  |      |         |       |               | YES         | NO |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) |  |
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| EXAMINER | DATE CONSIDERED |
|          | 7/19/04         |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| <b>FORM PTO-1449</b><br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE<br><br><b>INFORMATION DISCLOSURE STATEMENT<br/>IN AN APPLICATION</b> |  | DOCKET NO: 006726 USA/ETCH/CONE/JB<br><br>APPLICANT: Barnes et al.<br><br>FILING DATE: 8/21/2003<br><br>APPLICATION NO.: 10/646,943<br><br>GROUP ART UNIT: Unknown |  |
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| U.S. PATENT DOCUMENTS |                 |   |   |   |   |   |   |            |                   |       |               |                               |
|-----------------------|-----------------|---|---|---|---|---|---|------------|-------------------|-------|---------------|-------------------------------|
| EXAMINER<br>INITIAL   | DOCUMENT NUMBER |   |   |   |   |   |   | DATE       | NAME              | CLASS | SUB-<br>CLASS | FILING DATE<br>IF APPROPRIATE |
| SN                    | 5               | 9 | 9 | 7 | 9 | 5 | 0 | 12/07/1999 | Telford et al.    |       |               |                               |
|                       | 6               | 0 | 0 | 1 | 2 | 6 | 7 | 12/14/1999 | Os et al.         |       |               |                               |
|                       | 6               | 0 | 9 | 0 | 2 | 1 | 0 | 07/18/2000 | Ballance et al.   |       |               |                               |
|                       | 6               | 0 | 1 | 2 | 4 | 7 | 8 | 01/11/2000 | Park              |       |               |                               |
|                       | 6               | 1 | 0 | 8 | 1 | 8 | 9 | 08/22/2000 | Weldon et al.     |       |               |                               |
|                       | 6               | 1 | 1 | 3 | 9 | 8 | 4 | 09/05/2000 | MacLeish et al.   |       |               |                               |
|                       | 6               | 1 | 5 | 0 | 6 | 6 | 4 | 11/21/2000 | Su                |       |               |                               |
|                       | 6               | 1 | 7 | 0 | 4 | 2 | 8 | 01/09/2001 | Redeker et al.    |       |               |                               |
| SN                    | 6               | 1 | 7 | 9 | 9 | 2 | 4 | 01/30/2001 | Zhao et al.       |       |               |                               |
|                       | 6               | 1 | 8 | 5 | 8 | 3 | 9 | 02/13/2001 | Kholodenko et al. |       |               |                               |

| FOREIGN PATENT DOCUMENTS |                 |  |  |  |  |  |  |      |         |       |               |             |    |
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|                          | DOCUMENT NUMBER |  |  |  |  |  |  | DATE | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |    |
|                          |                 |  |  |  |  |  |  |      |         |       |               | YES         | NO |
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| EXAMINER <span style="font-family: cursive; font-size: 1.2em;">Sargh M</span>  | DATE CONSIDERED <span style="font-size: 1.2em;">7/19/04</span> |
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FORM PTO-1449  
U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

DOCKET NO: 006726 USA/ETCH/CONE/JB

APPLICATION NO.:  
10/646,943INFORMATION DISCLOSURE STATEMENT  
IN AN APPLICATION

APPLICANT: Barnes et al.

FILING DATE: 8/21/2003

GROUP ART UNIT:  
Unknown

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER |   |   |   |   |   |   | DATE       | NAME            | CLASS | SUB-<br>CLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|---|---|---|---|---|---|------------|-----------------|-------|---------------|-------------------------------|
| SN                  | 6               | 3 | 0 | 3 | 5 | 0 | 7 | 10/16/2001 | Wang et al.     |       |               |                               |
|                     | 6               | 3 | 3 | 3 | 2 | 7 | 2 | 12/25/2001 | McMillan et al. |       |               |                               |
|                     | 6               | 3 | 5 | 0 | 3 | 9 | 0 | 02/26/2002 | Liu et al.      |       |               |                               |
|                     | 6               | 3 | 8 | 8 | 2 | 5 | 3 | 05/14/2002 | Su              |       |               |                               |
|                     | 6               | 4 | 0 | 3 | 4 | 9 | 1 | 06/11/2002 | Liu et al.      |       |               |                               |
|                     | 0               | 1 | 8 | 8 | 4 | 1 | 7 | 12/12/2002 | Levy et al.     |       |               |                               |
| SN                  | 0               | 0 | 1 | 1 | 7 | 8 | 6 | 01/16/2003 | Levy et al.     |       |               |                               |
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|  | DOCUMENT NUMBER |  |  |  |  |  |  | DATE | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |    |
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER

Sanghan

DATE CONSIDERED

7/19/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.